East Engin. Library
TN
860
.P4915
v.27
1955

January, 1956

THE Petroleum Engineer

Vol. 28, No. 1
Part 2

INDEX to Vol. XXVII

From January, 1955 to December, 1955, Inclusive

KEY TO PAGE NUMBERS

A and E—Management Edition
B—Exploration, Drilling, Producing Edition
C—Refining, Petrochemicals, Gas Processing Edition
D—Oil, Gas, Products Pipelining Edition

SUBJECT INDEX

TITLE OF ARTICLE AND AUTHOR	Decimal No.	No.	Mo.	Year	Page
GENERAL					
Education's Challenge K. S. Adams	022.	7	July	1955	E-10
Program of API Midyear Meeting, Division of Refining	023.A5	5	May	1955	C-6
API's 35th Annual Meeting May Be Record	023.A5	12	Nov.	1955	A-47
Two Energies Meet to Gain Efficiency, E. L. Robinson	028.4	12	Nov.	1955	E-12
Refining and Petrochemical Directory of Engineering-Construction Firms	080.	5	May	1955	C-65
Drilling Rig Locator	082.	11	Oct.	1955	B-25
How to Schedule Engineering to Meet Critical Dates, W. G. Snyder	090.	6	June	1955	E-2
Highest NGAA Award Goes to Pioneer Designing Engineer	091.	5	May	1955	C-52
The Geologists' Challenge in Exploration Today, Graham B. Moody	091.	10	Sept.	1955	B-31
New Mathematical Charts Speed Calculations, E. J. George	092.1	7	July	1955	C-32
New Equipment Trends, James A. LeVelle	094.	8	July	1955	B-41
Plastic Pipe Proving Itself	094.11	5	May	1955	B-46
The Insulation Resistance Tester, Richard W. Inman	094.83	1	Jan.	1955	D-24
Automation in Action, Ernestine Adams	094.835	8	July	1955	A-39
Your Lease Can be a Producer's Pride Through Properly Scheduled Maintenance, F. W. Robson	094.99	5	May	1955	B-90
Non-Destructive Testing of Refinery Equipment, T. C. Wilson	094.99	7	July	1955	C-16
GEOGRAPHICAL					
Foreign Demand Rises Sharply in 1954, Ernestine Adams	100.	4	April	1955	A-45
Review of Sub-Devonian Exploration in the Northern Appalachian Basin, Douglas Rogers, Jr.	111.1	3	Mar.	1955	B-35
Problems of the Deep Appalachian Basin, H. P. Woodward	111.1	3	Mar.	1955	B-50
Oil Potential in Northern Appalachians, Bradford Willard	111.1	3	Mar.	1955	B-59
Drilling Operations in the Appalachian Basin, S. G. Day	111.1	3	Mar.	1955	B-66
Future Possibilities in the Appalachian Basin, Earl H. Linn	111.1	5	May	1955	B-32
Natural Gas Production in Southwestern Virginia, David M. Young	111.1	6	June	1955	B-29
Exploration Extensive in East Kentucky, Frank H. Walker	111.15	9	Aug.	1955	B-34
Citronelle— Alabama's Newest Oil Field, Walter B. Jones	111.17	12	Nov.	1955	B-37
Illinois Oil Industry Active in Mid-1955, Alfred H. Bell	111.23	11	Oct.	1955	A-59
Locations for Tomorrow, William C. Hayes	111.34	1	Jan.	1955	B-33
New Gas Production Awaits FPC Decision, C. R. Graham	111.341	12	Nov.	1955	E-19
Drilling Practices in the Permian Basin, R. J. Bromell	111.343.1	4	April	1955	B-55
South Louisiana — Hot Spot of the Nation, Vernon K. Dowdy	111.41	13	Dec.	1955	A-41
Six Lines on a Tidelands Map, E. M. Clinton	111.41	13	Dec.	1955	E-1
Well Logging From Drill Returns, F. F. Peters	111.61	4	April	1955	B-112
Black Oil Was Lloydminster's Lucky Star, Lawrence W. Lee	113.	2	Feb.	1955	A-65
Canadian Banks and The Petroleum Industry, Allan D. Insley	113.	2	Feb.	1955	E-6
Cessford Oil-Gas Field Developing Slowly, C. C. Frye and G. J. Maier	113.	2	Feb.	1955	B-48
Canadian Oil Settles Down to Steady Growth, H. G. Cochrane	113.	9	Aug.	1955	A-51
The Marvel of Pembina, J. A. Warke	113.6	2	Feb.	1955	B-39
Virden-Roselea Shows Promise of Manitoba, James F. Milne and George D. Nickoloff	113.6	2	Feb.	1955	B-81
Venezuela — Opportunist of the West, V. S. Swaminathan	122	3	Mar.	1955	A-49
Possibilities Unlimited — Venezuela	122.	3	Mar.	1955	B-6
Venezuela — Four Decades of Progress, V. S. Swaminathan	122.	4	April	1955	E-8
USSR Pushes Natural Gas Industry, Charles P. Adams	131.	13	Dec.	1955	E-3
Exploration in France Has Record Success in 1954, J. Dupouy-Camet	135.	7	July	1955	B-108
Drilling, Refining Bolsters Oil Development in Sicily	136.	2	Feb.	1955	E-15
Britain Searches for Natural Gas, V. S. Swaminathan	137.1	4	April	1955	B-77
Holland Gets New Oil Field, V. S. Swaminathan	139.	12	Nov.	1955	B-56
Petroleum Achievements in Spain, Mario Alvarez-Garcillan and Eduardo Recasens	139.95	6	June	1955	A-51
Development of India Petroleum Resources, M. K. Indra	144.	4	April	1955	B-50
Exploration Intensified in Taiwan, Formosa, Leo W. Stach	149.	6	June	1955	E-8
Israel Well Strikes Second Oil Sand, Ernestine Adams	149.	12	Nov.	1955	B-53
Oil For Nigeria	150.	2	Feb.	1955	E-20
Algerian Exploration	150.	4	April	1955	B-66
First Philippine Refinery	165.	12	Nov.	1955	C-16
PHYSICAL AND CHEMICAL PROPERTIES OF PETROLEUM					
The Nature and Composition of Petroleum, V. A. Kalichevsky	200.	6	June	1955	C-36
Oil-Water Emulsions—Their Composition and How to Treat Them, V. A. Kalichevsky	200.	9	Aug.	1955	C-21
Refining Fundamentals: Distillation, Methods For Fracturing Crude Oil, Part 5, V. A. Kalichevsky	200.	11	Oct.	1955	C-18
New Engine Designs, Fuel Needs Hold Attention of Automotive Engineers, Arch L. Foster	202.	1	Jan.	1955	C-20
Comparison of TBP and Engler Type Distillations at Subatmospheric Pressures, H. A. Oehler and M. Van Winkle	205.	1	Jan.	1955	C-10
Look to the Infrared End Point, L. A. Beaudry	205.	4	April	1955	C-55
Hydrocarbon Analysis Made More Accurate, Speedy, Walter J. Podbielniak and S. T. Preston	205.	5	May	1955	C-17
Determination of Total Carbon Dioxide by Evolution, Lester R. Dickson and Raymond R. Jay	205.	9	Aug.	1955	C-19
Evaluating Gasolines for Engine Induction System Gums, C. C. Moore, J. L. Keller, W. L. Kent, and F. S. Liggett	205.	12	Nov.	1955	C-19
Mass Spectrometer to "Boss" the Refinery, Jack K. Walker	211.6	12	Nov.	1955	C-7
Rapid Lamp Method for Total Sulfur, Willis R. Battles	225.22	7	July	1955	C-41
B-A Processes 2½ Million Barrels a Month, David L. Campbell	261.	2	Feb.	1955	C-14
Evaluation of Oklahoma and Kansas Crude Oils, J. G. Huddleston, R. E. Lindsay	261.	6	June	1955	C-7
Portable Tester for Gas-Condensate Wells, Don Attaway	290.	4	April	1955	B-97
EXPLORATION AND PROSPECTING FOR PETROLEUM					
Shell Exploration in Venezuela	300.	5	May	1955	B-93
The Geologists Challenge in Exploration Today, Graham B. Moody	300.	10	Sept.	1955	B-31
Great Basins' Future Expanded, a series reviewing Areas of Promise	305.	10	Sept.	1955	B-39
Great Basins' Future Expanded					
Williston Basin, Donald Towse	305.	10	Sept.	1955	B-40
Denver-Julesburg Basin, R. W. McCanne	305.	10	Sept.	1955	B-44
Uintah Basin, Dorsey Hager	305.	10	Sept.	1955	B-50
San Juan Basin, Paul H. Umbach	305.	10	Sept.	1955	B-56

TITLE OF ARTICLE AND AUTHOR	Decimal No.	No.	Mo.	Year	Page
Midland Basin, James C. Watson	305.	10	Sept.	1955	B-60
Powder River Basin, W. E. West, Jr.	305.	10	Sept.	1955	B-64
Water Study as Exploration Aid, George V. Chilingar	306.	4	April	1955	B-119
Petroleum Exploration With Radio Waves, Fred W. Kelly, Jr.	306.	6	June	1955	B-40
Design of Offshore Drilling Structures, Part 1, Richard J. Howe	306.14	11	Oct.	1955	B-73
Shell's First Permanent Platform Now Working	306.14	11	Oct.	1955	B-106
Photogeology, Norman C. Smith and Kenneth M. Renfro	306.42	10	Sept.	1955	B-94
Synthetic Fuels: What Are Prospects in Australia?, E. G. Nottes and George E. Mapstone	314.	4	April	1955	C-26
Development of Natural Gas Fields of Eastern Kentucky, Coleman D. Hunter	333.	5	May	1955	B-47
Carbonate Reservoirs for Southern Oklahoma, Harold Weichbrodt	343.2	7	July	1955	B-76
Time Machine Recreates Geologic History	351.	10	Sept.	1955	B-38
Undrilled Anticlines of the California Eocene, Homer Steiny	351.	11	Oct.	1955	B-116
Photocopying Replaces Hand-Drafting, B. Osborne Prescott	367.	5	May	1955	B-37
Microfossils and the Search for Oil, Brooks F. Ellis and Angelina R. Messina	367.21	4	April	1955	B-68
U. S. Geophysical Activity Starts Upward Push, J. E. Kastrop	368.	10	Sept.	1955	B-35
What it Takes to Explore for Oil in Other Lands, Cecil H. Green	368.2	10	Sept.	1955	B-104
Cost of Exploration and Production in the United States, R. Granier de Lilliac, Gilbert Lugol	387.	7	July	1955	B-40

DEVELOPMENT OF FIELDS

Magnolia is Using Two-Way Radio to Save Time and Money, Paul A. Greenmeyer	405.	3	March	1955	B-102

DRILLING

Drilling Fundamentals

Blowout Preventers, Marvin Jones	420.	1	Jan.	1955	B-97
Perforating of all Types, Carl Gatlin	420.	2	Feb.	1955	B-91
Straight Hole Drilling, R. J. Bromell	420.	3	Mar.	1955	B-95
Cementing Procedures and Materials, Dwight K. Smith	420.	4	April	1955	B-101
Weight on Bit and Rotary Speed, W. M. Booth	420.	4	April	1955	B-109
Communications, W. R. Harrington	420.	5	May	1955	B-100
Description of Operation, Robert L. Foree	420.	6	June	1955	B-113
Inland Water Drilling, O. W. Crisman	420.	7	July	1955	B-81
Personnel on a Drilling Rig, Gene Graham	420.	9	Aug.	1955	B-107
Instruments, Karl L. Kellogg	420.	9	Aug.	1955	B-109
Costs, William P. Clements, Jr.	420.	11	Oct.	1955	B-101
Rig Selection, Arthur P. Buzzini	420.	12	Nov.	1955	B-112
Crown and Traveling Blocks, Allan Fredhold, Jr.	420.	13	Dec.	1955	B-125
Hydraulic Tongs, Jerry Stumm	420.	5	May	1955	B-75
Trailer-Mounted Rigs Cut Downtime Between Wells, Neil B. Biggerstaff	420.	6	June	1955	B-124
Aerated Mud Drilling, Roy A. Bobo, R. S. Hoch, George S. Ormsby	420.000	12	Nov.	1955	B-46
A Study of Filtrate Invasion in Highly Permeable Sands, H. G. Doll	420.10	1	Jan.	1955	B-53
Interpretation Problems in Radioactivity Logging, James H. Russell	420.112.5	6	June	1955	B-72
Lithologic Well History Logs, Paul J. Lewis	420.152.	10	Sept.	1955	B-79
South Louisiana Wildcat—World's Deepest Well, James A. LeVelle	420.24	13	Dec.	1955	B-35
Nesson Anticline Winter Drilling Operations, B. J. Sinex	420.3	5	May	1955	B-77
So You Want to Drill an Oil Well, Nancy Heard	420.3	7	July	1955	B-98
Design of a Slim Hole Rig, J. R. Hilder	420.43	11	Oct.	1955	B-53
Slim Hole Drilling Tables, James A. LeVelle	420.43	11	Oct.	1955	B-108
Bottom-Hole Pressure Surges While Running Pipe, E. H. Clark, Jr.	422.	1	Jan.	1955	B-68
Lateral Drain-Hole Drilling, H. John Eastman	422.	1	Jan.	1955	B-111
Lateral Drain Hole Drilling, H. John Eastman	422.	3	Mar.	1955	B-77
Exhaust Drilling in Arkansas, Sim Crews	422.	1	Jan.	1955	B-115
In Pennsylvania Compressed Air Saves Drilling Dollars, Thomas J. Bono	422.	3	Mar.	1955	B-44
Drilling Barge Designed for Lake Maracaibo Operations	422.	4	April	1955	B-41
Hydrafrac Success, Jack Menneer	422.	5	May	1955	B-81
Drilling With Engine Exhaust Gases, Charles B. Erbe	422.	9	Aug.	1955	B-46
Winterization, E. E. Moore	422.113	2	Feb.	1955	B-73
Rig Rests on Clay Pad in Canada's Muskeg	422.221.15	11	Oct.	1955	B-121
Design of Offshore Drilling Structures, Richard J. Howe	422.911.1	12	Nov.	1955	B-77
Packaged Diesel-Electric Power Plant	422.912	9	Aug.	1955	B-66
Barge 101 Returned to Sea Duty	422.912.	13	Dec.	1955	B-118
Engineering Analysis of Cable Tool Drilling, Claude F. Bonham	424.241.	13	Dec.	1955	B-93
Air Drilling From Top to Bottom, C. R. Graham	425.	6	June	1955	B-107
100-Foot Kelly Joint Saves Rig Time	425.215	11	Oct.	1955	B-119
New Light Weight Drill Pipe, Jerry Stumm	425.215.	11	Oct.	1955	B-126
Ease in Handling of Drill Collars	425.215.	13	Dec.	1955	B-122
New High Weight Mud Saves Rig Time, J. H. McLaurin and Frank Ford, Jr.	425.218.4	13	Dec.	1955	B-83
Contractor-Operator Teamwork Cuts Spraberry Drilling Time	425.26	9	Aug.	1955	B-105
Economics of Slim Hole Drilling, Philip L. McLaughlin	425.27	11	Oct.	1955	B-60
"Off-Shore" Wells on the Ohio River Mark Carter Diamond Area Production, A. M. Rowley	429.2	1	Jan.	1955	B-48
Economic Selection of High Strength Casing, J. W. Peret	432.2	11	Oct.	1955	B-96
Corrosion Control in Texas Gas Fields, Jack L. Wiggins	432.611	6	June	1955	B-96
Cementing Service Fleet Expanded	444.	9	Aug	1955	B-32
True Pozzolan Cement Developed for Oil Field Use, J. E. Kastrop	444.163	12	Nov.	1955	B-33
New Idea in Oil and Gas Well Cement	444.163.	13	Dec.	1955	B-61
Devonian Responds to 'Super' Fracture Job, J. E. Kastrop	450.	7	July	1955	B-29
New Fracturing Fluid, Marion A. Whitfield, Roscoe C. Clark, Jr.	450.	10	Sept.	1955	B-85
Unusual Fracture Technique Stimulates New Mexico Dry Gas Wells	450.	12	Nov.	1955	B-110
Wire Line Formation Tester Run in South Louisiana Deep Well	451.1	13	Dec.	1955	B-78
Criteria for Casing Head Slip Suspension, A. F. Rhodes and J. C. Wilhoit	456.1	12	Nov.	1955	B-105
Here's What's Happening in Gas Dehydration Today	457.1	9	Aug.	1955	E-2
New Type of Completion Method, Clarence R. Dale	459.	7	July	1955	B-35
Problems and Economics of Dual Completions, F. G. Prutzman	459.6	7	July	1955	B-89
Permanent Completions Pay Off for Gulf in South Louisiana, Fred G. Courtney	459.6	13	Dec.	1955	B-46
Gulf's Dual Completion Activities in South Louisiana, Cliff J. Rodgers	459.6	13	Dec.	1955	B-66

PRODUCTION

Predicting Reservoir Performance, D. M. Bass and Paul B. Crawford	500.11	6	June	1955	B-59
Interesting Performance History of Reef Pools, A. D. Brown	501.12	2	Feb.	1955	B-58
Louisiana's Offshore Picture, J. E. Kastrop	501.21	13	Dec.	1955	B-40
New Gas Production Awaits FPC Decision, C. R. Graham	502.	12	Nov.	1955	E-19
How to Determine Static Bottom-Hole Pressure From Surface Measurements, Paul B. Crawford, R. I. Bradford, A. C. England, Henry Ince	509.13	9	Aug.	1955	B-81
The Sonic Oilwell Pump, J. B. Stumm	514.	3	Mar.	1955	B-107
How to Improve Sucker Rod Life, Kenneth N. Mills	514.	12	Nov.	1955	B-57
Simplified Method Tests Tubing, Jerry Stumm	514.41	9	Aug.	1955	B-42
Plunger Lift Removes Water from Gas Wells	515.7	10	Sept.	1955	B-76
New Approach for the Economic Design of 440-Volt Lease Distribution Systems, Glenn W. Webb	516.31	9	Aug.	1955	B-54
Plastic Coated Walnut Shells—Newest Method to Control Unconsolidated Sands, B. J. Ladd and K. E. Terrell	517.	13	Dec.	1955	B-112
Canadian Field Gets Gas Injection System D. J. McEachern	525.2	2	Feb.	1955	E-2
Fracturing in Canada, W. M. Thorvaldson	530.	2	Feb.	1955	B-69
Acid Kinetics in Limestone Formations, C. E. Clason	530.	3	Mar.	1955	B-111
Bottom Hole Heaters, K. G. Parrent	530.	5	May	1955	B-41
Plunger Fit Sets Pump Performance, Kenneth N. Mills	531.	4	April	1955	B-37
Evidence and Occurrence of Oil Seepages in Cuba, Florent H. Bailly	531.	10	Sept.	1955	B-72
Tailor-Made Fracturing Pays Off in the Rockies, Warren L. Sallee, Al Gionta	532.	6	June	1955	B-120
How to Evaluate Paraffin Inhibitors, C. C. Nathan	532.2	12	Nov.	1955	B-66
Workhorse of the Marshes	532.71	6	June	1955	B-103
Acidizing Deep Wells in East Texas, Paul Clinkenbeard	532.91	9	Aug.	1955	B-76
How to Construct Underground Gas Storage, Palmer H. Montgomery	533.25	3	Mar.	1955	E-2
Conservation Comes to Maracaibo, Sim H. Crews	537.	2	Feb.	1955	E-11
Injection Rates Tell Bottom-Hole Story, John F. Buckwalter	538.	2	Feb.	1955	B-96
Waterflooding Activities in the KMA Field, Part I, R. P. Dobyns, C. T. Burchett, Jr., D. S. McBride, R. R. Darner, and W. H. Hammon	538.	4	April	1955	B-90
Waterflooding Activities in the KMA Field, Part II, R. P. Dobyns, C. T. Burchett, Jr., D. S. McBride, R. R. Darner	538.	5	May	1955	B-64
Waterflooding Activities in the KMA Field, Part III, R. P. Dobyns, C. T. Burchett, Jr., D. S. McBride, and R. R. Darner	538.	6	June	1955	B-87
Waterflooding Activities in the KMA Field, Part IV, R. P. Dobyns, C. T. Burchett, Jr., D. S. McBride, R. R. Darner	538.	7	July	1955	B-64
Waterflooding Activities in the KMA Field, Part V, R. P. Dobyns, C. T. Burchett, Jr., D. S. McBride, R. R. Darner	538.	9	Aug.	1955	B-99
Diatomaceous Earth Filtration of Water for Sub-Surface Injection, A. F. Alciatore, M. B. Harris, W. E. Wallin	538.	5	May	1955	B-57
Secondary Recovery of Petroleum in Pennsylvania, William S. Lytle	538.	6	June	1955	B-33
Maracaibo's Bush City, Kansas, Waterflood Follows Planning	538.	6	June	1955	B-79
Seeley Unit Successful Operation, H. E. Schwartz, Jr.	538.	7	July	1955	B-105
Elements of Water Injection, Part I, J. Randolph Buck	538.	9	Aug.	1955	B-29
Elements of Water Injection, Part II, J. Randolph Buck	538.	10	Sept.	1955	B-69
Elements of Water Injection, Part III, J. Randolph Buck	538.	11	Oct.	1955	B-86

TITLE OF ARTICLE AND AUTHOR	Decimal No.	No.	Mo.	Year	Page
Elements of Water Injection, Part IV, J. Randolph Buck	538.	12	Nov.	1955	B-72
Elements of Water Injection, Part V, J. Randolph Buck	538.	13	Dec.	1955	B-87
Another Hundred Million Barrels	538.1	1	Jan.	1955	E-2
Surfactants Influence on Flood Recovery, Charles P. Milner and Harry H. Power	538.1	5	May	1955	B-114
Story of Pipe Line Growth	543.2	7	July	1955	E-2
Trucks: Magic Carpet and Muscles of the Petroleum Industry, Ernestine Adams	593.	10	Sept.	1955	A-43
Operators Cooperate in Water Disposal System, E. Hochhausen	594.5	2	Feb.	1955	B-75
Refinery Waste Water Cleaned by Flotation, C. E. Fiske, Paul Mernitz	594.5	6	June	1955	C-31

TRANSPORTATION, STORAGE AND GAUGING

Heating Oil Goes Underground, Kenneth J. Nuber	600.	9	Aug.	1955	D-11
Canada Prepared for Pipe Line Expansion, L. O. Rowland	605.	2	Feb.	1955	D-30
The Trans-Canada Story, N. E. Tanner	605.	2	Feb.	1955	D-47
Pipe Line Contractors Optimistic	605.	2	Feb.	1955	D-52
Progress in Weather Forecasting, Francis W. Reichelderfer	605.	4	April	1955	D-41
Annual NACE Meeting	605.	4	April	1955	D-64
Viscosity and Fluid Friction Calculation Fundamentals, Carl W. Boegehold	605.	5	May	1955	D-62
Equipment Development is Partner in Line Progress, Dean Hale	605.	8	July	1955	D-22
Construction Report: 1955	605.	11	Oct.	1955	D-21
Guide to Proposed Pipe Lines	605.	11	Oct.	1955	D-23
Guide to Lines Built or Under Construction	605.	11	Oct.	1955	D-25
Pipe Line Construction in 1955	605.	11	Oct.	1955	D-27
Proposed Pipe Line Construction	605.	11	Oct.	1955	D-29
The Petroleum Engineer's 1955-56 Pipe Line Contractor's Directory	605.	11	Oct.	1955	D-56
Pipe Line "Packaged" in Single Ship, Dean Hale	605.	11	Oct.	1955	D-98
Trailers Find Important Use in Pipe Line Operations, Dean Hale	605.	12	Nov.	1955	D-52
Batching Natural Gasoline Through Crude Oil Lines, Charles N. Adams	605.	12	Nov.	1955	D-70
Piping System Pulsations and How to Control Them, Charles Newman and Ned H. Moerke	605.	13	Dec.	1955	D-54
Aluminum Line Installed in Lake Maracaibo	605.	13	Dec.	1955	D-57
Dual Purpose Coating Developed for Submarine Pipe Lines	605.	13	Dec.	1955	D-59

OIL TRANSPORTATION

Marine Terminal Completed in California, Jerry Stumm	614.	7	July	1955	C-12
Fire Protection for Terminals and Stations, A. L. Dunlap	614.6	12	Nov.	1955	D-66
New Depreciation Methods for Equipment Investments, Perry Schwartz	615.	5	May	1955	D-31
In the Good Olde Days When Pipeliners Fought Fire With Cannon Fire	615.	5	May	1955	D-88
Wartime Security Measures for Pipe Lines, C. B. Lester and H. T. Chilton, Jr.	615.	9	Aug.	1955	D-28
Crude Outlet Provided by New Butte Line	615.	11	Oct.	1955	D-47
Texas-California Product Line Nears Completion, J. B. Stumm	615.	11	Oct.	1955	D-52
Combination Units Provide Gathering System Economy, L. O. Rowland	615.	11	Oct.	1955	D-112
"Hot Tap" Made Under 25 Feet of Water	615.	12	Nov.	1955	D-62
Safety in Pipe Line Construction Bennie G. Pierce	615.	12	Nov.	1955	D-81
The Cherokee Story, Frank H. Love	615.05	11	Oct.	1955	D-40
Photo-Alinement Mapping: For a Complete Record, John C. Bayless	615.06	6	June	1955	D-27
Locate Right-of-Way the Modern Way, J. H. Mitchell	615.061.	5	May	1955	D-82
Photogrammetry in Pipe Line Construction, J. H. Mitchell	615.061.	7	July	1955	D-11
Photogrammetry in Pipe Line Construction, J. H. Mitchell	615.061.	9	Aug.	1955	D-34
Horizontal Co-Current Two-Phase Flow of Fluids in Pipe Lines, Philip D. White and R. L. Huntington	615.1	9	Aug.	1955	D-40
Shortcuts for Field Calculations, J. W. J. Bercher	615.11	5	May	1955	D-68
Operating Ideas	615.3	4	April	1955	D-57
Lorraine-Paris Pipe Line in Service, Gault MacGowan	615.3	4	April	1955	D-62
Shaping the Pipe Line "Highways," Richard Hoyt	615.3	12	Nov.	1955	D-38
Modern Usage of Wire Lines, F. P. "Pat" O'Connor	615.36	12	Nov.	1955	D-27
Advances in Multi-Channel Microwave Communications, E. P. Elmore, Jr.	615.365.	5	May	1955	D-20
Radar Profiling, W. C. Eddy	615.365.	5	May	1955	D-42
Remote Control of Microwave Standby Power Units, Robert L. Halvorson	615.365.1	2	Feb.	1955	D-23
Remote Control by Microwave, P. J. Brewster, E. P. Lounsberry, J. B. Williams	615.365.1	4	April	1955	D-23
Microwave: Seven Years Later, Dean Hale	615.365.1	4	April	1955	D-52
Float-Charged Battery Operation for Continuous Station Power, Lee Elmore	615.365.1	11	Oct.	1955	D-81
Service Pipe Line Plans New Microwave System	615.365.1	13	Dec.	1955	D-51
River Crossings in New Dress, J. R. Sellers, S. J. Brady	615.371.	5	May	1955	D-38
River Crossings Engineering Practices, Leo M. Odom	615.371.	11	Oct.	1955	D-94
Deep Crossing Solves River Washout Problems, Carl Huss	615.371.1	6	June	1955	D-46
"Bundled" Offshore Lines Installed in California, J. B. Stumm	615.372.	7	July	1955	D-5
New Bridge Design for Tough Rivers, Dean Hale	615.38	5	May	1955	D-80
Bow River Bridge Has Unique Design, L. O. Rowland	615.38	10	Sept.	1955	D-11
What's a Corrosion Survey Worth, Marshall E. Parker	615.51	9	Aug.	1955	D-24
Opposed-Piston Diesel Engines in Products Pipe Line Service	615.511.3	12	Nov.	1955	D-76
Reciprocating Pump Valve Lifters, T. S. Llewellyn and M. T. Nigh	615.512.	4	April	1955	D-29
Inspection During Construction	615.53	11	Oct.	1955	D-78
Exhaust Gas Heats Flow Line	615.531.	12	Nov.	1955	D-70
Design, Maintenance and Operation of Remote-Controlled, Unattended Pump Stations, T. V. Bockman, R. S. Cannon	615.55	6	June	1955	D-36
Make Your Communications Facilities More Effective, H. C. Waterman	615.55	10	Sept.	1955	D-34
The Capacitance Product Analyzer, Howard J. Endean and Robert M. Howard	615.6	12	Nov.	1955	D-21
Automatic Pump Station Operation, C. S. Williams, Jr.	615.6	13	Dec.	1955	D-48
Volumetric Shrinkage: Big Problem to Pipe Lines Blending Distillates and Light Products Into Crude Streams, H. M. Childress and M. B. Grove	615.65	13	Dec.	1955	D-35
Small Span Crossing is Major Project, Carl Huss	615.63	4	April	1955	D-48
Fundamentals of Corrosion Surveys, Marshall E. Parker	615.635	3	Mar.	1955	D-22
Reference Electrodes: Where to Place Them, L. P. Sudrabin and J. A. Lehmann	615.635.	3	Mar.	1955	D-32
Pipe Line in a Hurry, Dean Hale	615.05	1	Jan.	1955	D-6
Badger Pipe Line Difficult Construction Project, Dean Hale	615.05	1	Jan.	1955	D-10
A New Centralized Control System to Handle Complex Dispatching, Paul K. Eckhardt	615.55	2	Feb.	1955	D-6
Winterization of Construction Equipment, Victor A. Woodling	615.63	11	Oct.	1955	D-88
Polyethylene Tape for Pipe Coating, Marshall E. Parker	615.635.	1	Jan.	1955	D-28
New Okan Pipe Line System	616.	11	Oct.	1955	D-39
Botany Bay Line Australia's Longest	616.	11	Oct.	1955	D-65
Great Lakes Pipe Line Nears Completion	616.	11	Oct.	1955	D-66
Twin Product Lines Laid in Western Australia	616.05	4	April	1955	D-50
Alaskan Products Line in Operation	616.053.	10	Sept.	1955	D-55
How Middle Distillate Movements Affect Pipe Line Throughput Capacity, J. R. Childs	616.11	12	Nov.	1955	D-30
Wolverine's Remote Control and Telemetering System, C. R. Walker	616.55	7	July	1955	D-20

GAS TRANSPORTATION

Muffler, Acoustic Materials and Aid Pressure Station Noise Abatement, Carol Neaves	620.	10	Sept.	1955	D-26
Pipe Line Communication and Control, C. E. Upson	620.365.1	7	July	1955	D-26
Calculation of Flow and Storage of Natural Gas in Pipe, Part I, R. G. Nisle and Fred H. Poettmann	621.	1	Jan.	1955	D-14
Calculation of the Flow and Storage of Natural Gas in Pipe, Part 2, R. G. Nisle and Fred H. Poettmann	621.	2	Feb.	1955	D-36
Calculation of the Flow and Storage of Natural Gas in Pipe, Part 3, R. G. Nisle and Fred H. Poettman	621.	3	Mar.	1955	D-37
How SFC and GTC Help Simplify Line Flow Efficiency Calculations, Merle S. Greaves	621.	7	July	1955	D-35
Shortcuts for Field Calculations, J. W. J. Bercher	622.	5	May	1955	D-68
36-Inch Pipe Laying Comes of Age, Dean Hale	623.	11	Oct.	1955	D-33
Long Awaited American Louisiana Line Construction Underway	623.	11	Oct.	1955	D-46
TGT's 1955 Expansion, George O. Jackson	623.	11	Oct.	1955	D-48
Texas Gas Adding 210 Miles, 22,600-hp	623.	11	Oct.	1955	D-71
Transok: New Intrastate Pipe Line	623.	11	Oct.	1955	D-74
Texas Gas Corporation Line Crosses Bay	623.	11	Oct.	1955	D-111
Mile Long Crossing Drilled Through Rock, C. H. Vivian	623.371.	1	Jan.	1955	D-40
Increased Capacity, Improved Operation at UGPL's Carthage Station	624.	2	Feb.	1955	D-14
Transco to Install First Engine-Centrifugal Station, Dean Hale	624.	5	May	1955	D-77
Cooling Tower Moved Easy Way—On Wheels	624.	7	July	1955	D-8
Control Fire Method for Gas Pipe Line Repair, Harry W. Gavin	624.	10	Sept.	1955	D-47
Pacific Northwest Pipe Line Construction in First Phase	624.	11	Oct.	1955	D-105
Texas Eastern, Subsidiary Companies Have $94,000,000 Program Underway	624.	11	Oct.	1955	D-108
More Gas for the Midwest	624.	12	Nov.	1955	D-64
American Louisiana to Test New 30-In. Gas Line With Air	624.	12	Nov.	1955	D-69
Operating Difficulties Can be Eliminated By Proper Planning of Compressor Plants, H. S. Farnsworth	624.2	1	Jan.	1955	D-32
The Turbo-Charged Horizontal Gas Engine, W. E. Warner	624.2	12	Nov.	1955	D-42
Turbocharging Two Stroke Gas Engines, C. A. Chamberlain and G. H. Bollman	624.4	13	Dec.	1955	D-26
An Economic Analysis of Water Treatment, M. C. Forbes	624.55	10	Sept.	1955	C-34
A Survey of Water Conditioning, J. W. Gibson	624.55	10	Sept.	1955	C-44
Cooling Tower Wood Can Be Protected, Richard B. Conlan	624.56	1	Jan.	1955	C-13
Guide to Inspection of Field Compressor Stations, J. H. Watson	624.7	2	Feb.	1955	D-18
Maintenance "Musts" for Compressors, V. E. Ford	624.7	2	Feb.	1955	D-20

TITLE OF ARTICLE AND AUTHOR	Decimal No.	No.	Mo.	Year	Page
Pipelining by Boat Keeps UGPL Offshore Facilities Operating	625.	4	April	1955	D-18
Communications System Designed for Automation, Sy Orlofsky	625.	5	May	1955	D-47
Bosun's Chair Makes Bridge Maintenance Easier Task, C. Thompson	625.	5	May	1955	D-86
First Engine-Centrifugal Unit Designed for Automatic Operation, D. M. Salls	625.	6	June	1955	D-54
Emergency Pipe Line Repair Equipment, Keith Bentz	625.4	10	Sept.	1955	D-60
Internal Cleaning of Operating Lines Can Improve Gas Flow Efficiencies, Paul L Hughen	625.4	12	Nov.	1955	D-55
Compressor Station Corrosion Problems, J. C. Berringer	625.45	10	Sept.	1955	D-31
Just One Switch to Start and Load Mainline Compressors, E. N. Sampson	625.7	4	April	1955	D-14
New Technique for Gas Dispatching, L. B. Lumpkin	625.8	3	Mar.	1955	D-16
Remote Control of Gas Flow at Delivery Measuring Stations, Gene Foulke	625.8	13	Dec.	1955	D-22
Make Your Communications Facilities More Effective, H. C. Waterman	625.81	10	Sept.	1955	D-34
Gas Pipe Line Deposits—Causes and Cures, L. T. Bissey	629.1	3	Mar.	1955	D-28
Reclaim That Glycol, O. G. Howe	629.25	5	May	1955	D-55
Economics of Modern Gas Dehydration, A. H. Weil	629.25	7	July	1955	D-14
Instrumentation Makes Austin Field Dehydration Plant's Functions Safe, Efficient	629.251.	5	May	1955	D-58
OIL STORAGE					
Cathodic Protection of Treating Equipment, W. C. Koger	644.	3	Mar.	1955	B-92
Oil Storage Tanks, C. V. Lynn	644.	10	Sept.	1955	D-13
Venting Atmospheric Pressure Tanks, H. C. Packard	648.2	9	Aug.	1955	D-17
Underground Gas Storage in the Appalachian Area, Frank A. Boyd	650.	9	Aug.	1955	B-84
Underground Gas Storage, H. L. Fruechtenicht	653.	9	Aug.	1955	D-46
Digital Telemetering via Teletype, Sy Orlofsky	655.81	6	June	1955	D-15
OIL GAUGING					
Office Laboratories on Wheels, Dal Clark	670.	3	Mar.	1955,	D-20
WET GAS MEASUREMENT					
Measurement of Full Well Stream Gas, Joe Askew, Jr., and L. G. Cable	680.01	11	Oct.	1955,	B-90
ANALYSIS OF NATURAL GAS					
Analysis of Gaseous Mixtures With a New Unit, K. H. Clough	686.	10	Sept.	1955,	C-26
REFINING AND GAS PROCESSING					
The Nature and Composition of Petroleum, V. A. Kalichevsky	700.	5	May	1955,	C-11
Atomic Energy Will Not Oust Petroleum	700.	5	May	1955,	C-34
Radioactivity Invades Oil Research Laboratory	700.	9	Aug.	1955,	C-11
Atomic Defense in the Oil Refinery, Dimitri A. Kellogg	700.	11	Oct.	1955,	C-6
Industry's No. 1 Long Range Problem — Power, Arch L. Foster	701.	3	Mar.	1955,	C-6
Oil Industry's Two-Horned Dilemma	701.	3	Mar.	1955,	C-64
Automatic Control Compressed Air Operated Lube Blending Plant, Walter Sekules	701.	4	April	1955,	C-38
Grangemouth Refinery a Complex Operation	701.	4	April	1955,	C-40
Altona, Australia, Refinery on Stream	701.	4	April	1955,	C-47
Huge Refinery Expansion in Europe, V. S. Swaminathan	701.	4	April	1955,	C-51
Natural Gasoline Has Four 'Bowstrings,' Arch L. Foster	702.	10	Sept.	1955,	C-6
Refinery Rises Over Arabia's Aden Desert, V. S. Swaminathan	710.1	2	Feb.	1955,	C-19
British Refinery on Stream, C. Morgan Jones	710.1	2	Feb.	1955,	C-47
Orthoflow Unit Raises Canadian Octane Number, J. L. Porter	710.1	4	April	1955,	C-7
Italian Marghera (Venice) Refinery on Full Stream, V. S. Swaminathan	710.1	4	April	1955,	C-11
Antwerp Refinery Completely Modernized, C. Morgan Jones	710.1	4	April	1955,	C-19
PROCESSES					
Catforming "Civilizes" Naphthas	720.1	2	Feb.	1955,	C-33
New Process Makes 100-Octane Number Gasoline	720.1	4	April	1955,	C-60
Basic Techniques in Petroleum Fractionation, C. H. Brooks	721.	11	Oct.	1955,	C-33
Thermal Cracking and Reforming, V. A. Kalichevsky	721.	12	Nov.	1955,	C-11
Hydrogenation, Polymerization, Alkylation, Isomerization and Related Processes, V. A. Kalichevsky	721.	13	Dec.	1955,	C-19
West Coast's Latest Coking Plant, Jerry Stumm	721.	13	Dec.	1955,	C-6
Development in Fractionator Design, Francis W. Winn	721.02	10	Sept.	1955,	C-10
Factors in Selecting a Catalytic Reforming Process, R. A. Steel, J. A. Bock, W. R. Hertwig, L. W. Russum	721.33	2	Feb.	1955,	C-25
Catalytic Processes Occupy Crucial Position, Vanderveer Voorhees	721.33	3	Mar.	1955,	C-26
New Catcracking Process Solves Residuum Problems, J. C. Dart, G. A. Mills, A. G. Oblad, C. C. Peavy	721.33	6	June	1955,	C-42
Carbon-Piston Compressor Recycles Hydrogen	721.33	7	July	1955,	C-47
Some "Accidental" Sweetening Reactions, George E. Mapstone	725.	12	Nov.	1955,	C-35
Compact Design for New Oil Extractor, Collin M. Doyle and Edward Rauch	725.3	5	May	1955,	C-49
Additives for Fuels and Lubricants, C. M. Larson	729.1	3	Mar.	1955,	C-44
Molecular "Sieves" Offer New Separation Process, Eugene B. Brien	729.2	3	Mar.	1955,	C-35
Application of Electrical Precipitation to Distillate Treating, R. J. Phillips	729.4	13	Dec.	1955,	C-9
DESIGN AND CONSTRUCTION					
As Equipment Goes So Goes Refining, Arch L. Foster	730.	8	July	1955,	C-19
How Foundations Are Designed, H. B. Skidmore	731.	7	July	1955,	C-36
Piping Stress Analysis as Applied to Numerical Methods, L. H. Chen	731.	11	Oct.	1955,	C-40
PDQ System of Design Development, Jack R. Parker	731.	13	Dec.	1955,	C-39
Metal Insulation Jackets Provide Heater Protection, Harold L. Humes	732.4	9	Aug.	1955,	C-40
How to Drain Bubble-Cay Columns, J. E. Broaddus, A. J. Morse, R. L. Huntington	734.5	2	Feb.	1955,	C-38
Multicomponent Fractionation, Royes Salmon	734.5	2	Feb.	1955,	C-42
Hydraulics of Gas-Liquid Contacting Trays, W. E. Brook, D. E. Honnold, W. C. Cunningham, R. L. Huntington	734.5	9	Aug.	1955,	C-32
The Choice, Design, Characteristics, and Maintenance of Centrifugal Pumps, (Part 1 Mechanical Engineering, Refining Fundamentals), F. B. Applegate	739.23	7	July	1955,	C-19
The Choice, Design, Characteristics and Maintenance of Centrifugal Pumps, (Part 2 Mechanical Engineering Refining Fundamentals), F. B. Applegate	739.23	11	Oct.	1955,	C-9
The Choice, Design, Characteristics and Maintenance of Centrifugal Pumps, (Part 3 Mechanical Engineering Refining Fundamentals), F. B. Applegate	739.23	13	Dec.	1955,	C-31
Trends in Refinery Instrumentation, R. A. Schlegel and S. D. Ross	739.7	3	Mar.	1955,	C-37
REFINERY OPERATION AND CONTROL					
First All-Electronic Control Panel, V. S. Swaminathan	740.	4	April	1955,	C-13
As Equipment Goes So Goes Refining Arch L. Foster	740.1	8	July	1955,	C-19
Electronic Control of Refinery Pumps, John Petrovsek	749.2	1	Jan.	1955,	C-7
Full Automation in Minnesota Refinery, Fred Kraus	749.2	9	Aug.	1955,	C-44
LUBRICANTS AND RELATED OILS					
Canadian Lube Oil Plant Last Word in Design	753.	2	Feb.	1955,	C-11
Multiple Viscosity Motor Oils Analyzed, Eugene B. Brien	753.	5	May	1955,	C-45
TESTING AND RESEARCH LABORATORIES					
Atomic Energy Enters Refining Field, Eugene B. Brien	765.	3	Mar.	1955,	C-61
MISCELLANEOUS AUXILIARY PLANTS AND DEPARTMENTS					
Radio Communication — A Must in Refineries, Elmer W. Hayes	769.2	13	Dec.	1955,	C-60
RECOVERY OF LIQUIDS FROM GAS					
The Pledger Gasoline Plant	772.1	2	Feb.	1955,	C-57
Advantages of Latent Cooling of Compressors, H. Menard and E. D. Blossom	772.31	9	Aug.	1955,	C-12
Operating Experience with Amine Units for H_2S Removal, R. A. Feagan, H. L. Lawler, and M. H. Rahmes	779.3	11	Oct.	1955,	C-48
CORROSION IN REFINERY EQUIPMENT AND METHODS OF MINIMIZING DESTRUCTION DUE TO CORROSION					
Corrosion Prevention in Cooling Water Heat Exchangers, J. D. Munro	791	1	Jan.	1955,	C-35
Vinyl Coatings 'Cover' the Refinery, Charles G. Munger	791.	7	July	1955,	C-7
Processing Plants Controlling Corrosion, Bryant W. Bradley	791.	10	Sept.	1955,	C-58
PETROCHEMICALS					
Petrochemicals to You, Joseph R. Mares	793.	3	Mar.	1955,	C-12
Plastics in Perspective, George Barsky	793.	5	May	1955,	C-37
Plastics on Parade, George Barsky	793.	6	June	1955,	C-49
Plastics in Preview, George Barksy	793.	9	Aug.	1955,	C-8
Petrochemicals Unlimited from Ethane, Propane, Butane, Peter W. Sherwood	793.	5	May	1955,	C-53
Polymerization, Alkylation, Dehydrogenation Are Major Processes for Making Derivative Hydrocarbons, Peter W. Sherwood	793.	6	June	1955,	C-13
Derivative Hydrocarbons, Peter W. Sherwood	793.	7	July	1955,	C-25
Halogenated Petrochemicals, Part III, Peter W. Sherwood	793.	12	Nov.	1955,	C-41

TITLE OF ARTICLE AND AUTHOR	Decimal No.	No.	Mo.	Year	Page
Oxygenated Petrochemicals, Part IV, Sec. 1, Peter W. Sherwood	793.	13	Dec.	1955,	C-14
Direct Oxidation of Ethylenes to Ethylene Oxide, Ralph Landeau	793.	5	May	1955,	C-71
Canada's Only Polythene Plant, C. H. Hantho, M. Valois	793.	6	June	1955,	C-22
Petrochemicals, a Growing Natural Gasoline Outlet, Lucien O. Crockett and Rolande C. Widgery	793.	10	Sept.	1955,	C-15
Catformer Tail Gas for Ammonia Synthesis, J. H. Arnold and W. T. Dixon	793.	13	Dec.	1955,	C-55
Natural Gas Reformers for Ammonia Synthesis, R. J. Williams	793.1	9	Aug.	1955,	C-6
New Developments in Synthetic Elastomers, R. T. Woodhams and P. F. Bruins	793.2	3	Mar.	1955,	C-54

UTILIZATION OF PETROLEUM AND ITS PRODUCTS

Satisfactory Burning of Fluid Coke, R. M. Cornforth and Edward R. Lee, Jr.	808.	11	Oct.	1955,	C-29
Great Inventions to Come in the Future, SAE Told, Arch L. Foster	810.	2	Feb.	1955,	C-6
The Maintenance Supervisor, R. R. Bessler	880.1	5	May	1955,	D-75

ECONOMICS OF THE OIL AND GAS INDUSTRY

What's Ahead for Oil and Gas in 1955, Sim Crews, Arch L. Foster, Dean Hale	900.	1	Jan.	1955,	A-41
Canadian Oil Eyes Further Markets, H. G. Cochrane	900.	1	Jan.	1955,	A-45
Canadian Output Could Balance Consumption, Floyd K. Beach	900.	2	Feb.	1955,	A-61
How Burdensome is the Debt, Arthur A. Smith	900.	4	April	1955,	E-20
U. S. Companies Pass $5 Billion Mark for Annual Capital Expenditures, Ernestine Adams	900.	5	May	1955,	A-63
Operations Research, William A. Clark	900.	7	July	1955,	A-35
Progress in Horsepower, Charles L. McCuen	900.	11	Oct.	1955,	E-11
"Barrel Number One" Makes OPW Debut	900.	11	Oct.	1955,	E-24
Can't Stand Competition, S. B. Irelan	900.	12	Nov.	1955,	E-4
Petroleum Economics, Ernestine Adams	900.	13	Dec.	1955,	E-22
Petrochemical Growth: Will It Affect Oil and Gas Production, T. G. Hughes	901.	4	April	1955,	B-80
Operators Completed 53 Deep Wells in 1954, Ernestine Adams	910.	1	Jan.	1955,	B-27
Oil Rides Boom, Ernestine Adams	910.	10	Sept.	1955,	E-19
LP-Gas Sales Exceed Five Billion Gallons, George R. Benz, Paul W. Tucker, and W. F. DeVoe	914.125	1	Jan.	1955,	C-27
Management's Real Job — Profits, Edward J. Burnell	926.1	11	Oct.	1955,	E-2
The Changing Role of Management, Douglas McGregor	930.	4	April	1955,	E-2
Six-Point Program Will Improve Management-Employee Relations, Ray O. Weems, Jr.	931.	11	Oct.	1955,	A-64
Needed: $8 Billion Worth of Management, O. C. Roehl	931.	13	Dec.	1955,	E-17
Morale and Productivity, Dick Carlson	931.2	1	Jan.	1955,	E-9
Periscope on the Future, Ernestine Adams	932.395	6	June	1955,	E-12
Industrial Hygiene in the Petroleum Industry, A. C. Pabst	934.31	5	May	1955,	E-2
Safe Practices in Offshore Operations, C. A. Travirca	934.314	13	Dec.	1955,	B-54
More Drilling Engineers Needed, C. R. Graham	934.351	11	Oct.	1955,	B-68
Supervision . . . Key to Effective Communication, Millard E. Stone	935.	10	Sept.	1955,	E-6
How Radio Helps Refinery Operation, Paul A. Greenmeyer	937.	5	May	1955,	C-26
USSR Struggles With Electronic Computers	941.	9	Aug.	1955,	A-58
Canadian Banks and The Petroleum Industry, Allan D. Insley	950.93	2	Feb.	1955,	E-6
Pressure Build-Up Curves Show Oil-in-Place, J. Randolph Buck	951.1	5	May,	1955,	B-103
Calculating Behavior of Closed Reservoirs, W. C. Sturdivant, Jr.	951.16	12	Nov.	1955,	B-95
A Simplified Method of Calculating Behavior of Closed Reservoirs, Part 2, W. C. Sturdivant, Jr.	951.16	13	Dec.	1955,	B-105
Cost of Exploration and Production in the United States, R. Granier de Lilliac, Gilbert Lugol	951.2	7	July	1955,	B-40
Secondary Recovery and New Drilling Give Ohio Wide Potential, Edward V. O'Rourke	951.7	3	Mar.	1955,	B-71
Atomic Energy Versus Oil, Walter G. Whitman	967.8	5	May	1955,	E-9
How to Lease Tidelands, Lucius M. Lamar	980.	3	Mar.	1955,	E-12
Enterprise — Controlled or Free, Bruce R. Alger	980.	12	Nov.	1955,	E-17
Oil and Gas Liens Depend on Statutes, John C. Griffin	981.	10	Sept.	1955,	E-1
Can You TAX Petroleum Out of the Market?	982.	5	May	1955,	E-13
Federal Taxation of Oil and Gas, Leland E. Fiske	982.	9	Aug.	1955,	A-54
Red Tape Can Choke Interstate Gas Business, Ernestine Adams	986.32	3	Mar.	1955,	A-47
Signposts for a Sound Economy, Harry W. Bass	991.	1	Jan.	1955,	A-50
Good Public Relations Should Begin With the Drilling Contractors, Gene Graham	994.	4	April	1955,	B-35

REFINING FUNDAMENTALS

Introduction, V. A. Kalichevsky, C-11, May, 1955

Technology

Petroleum . . . Its Occurrence and Distribution, Chapters I and II, V. A. Kalichevsky, C-12, May, 1955

The Nature and Composition of Petroleum, Chapter III, V. A. Kalichevsky, C-36, June, 1955

Oil-Water Emulsions . . . Their Composition and How to Treat Them, Chapter IV, V. A. Kalichevsky, C-21, August, 1955

Distillation Methods for Fractionating Crude Oil, Part V. V. A. Kalichevsky, C-18, October, 1955

Thermal Cracking and Reforming, Part VI, V. A. Kalichevsky, C-11, November, 1955

Hydrogenation, Polymerization, Alkylation, Isomerization and Related Processes, Part VII, V. A. Kalichevsky, C-19, November, 1955

Mechanical Engineering

The Choice, Design, Characteristics, and Maintenance of Centrifugal Pumps, Part I, F. B. Applegate, C-19, July, 1955

The Choice, Design, Characteristics, and Maintenance of Centrifugal Pumps, Part II, F. B. Applegate, C-9, October, 1955

The Choice, Design, Characteristics, and Maintenance of Centrifugal Pumps, Part III, F. B. Applegate, C-31, December, 1955

Piping Stress Analysis as Applied to Numerical Methods, L. H. Chen, C-40, October, 1955.

AUTHOR INDEX

Author—	Page
A	
Adams, Charles N. Vol. 27, No. 12	D-70
Adams, Charles P. Vol. 27, No. 13	E-3
Adams, Ernestine Vol. 27, No. 1	B-27
Vol. 27, No. 3	A-47
Vol. 27, No. 4	A-45
Vol. 27, No. 5	A-63
Vol. 27, No. 6	E-12
Vol. 27, No. 8	A-39
Vol. 27, No. 10	A-43
Vol. 27, No. 10	E-19
Vol. 27, No. 12	B-53
Vol. 27, No. 13	E-22
Adams, K. S. Vol. 27, No. 7	E-10
Alcintore, A. F. Vol. 27, No. 5	B-57
Alger, Bruce R. Vol. 27, No. 12	E-17
Alvarez-Garcillan, Mario Vol. 27, No. 6	A-51
Anonymous Vol. 27, No. 1	E-2
Vol. 27, No. 2	E-15
Vol. 27, No. 2	E-20
Vol. 27, No. 2	C-11
Vol. 27, No. 2	C-33
Vol. 27, No. 2	C-57
Vol. 27, No. 2	D-14
Vol. 27, No. 2	D-52
Vol. 27, No. 3	B-6
Vol. 27, No. 3	C-64
Vol. 27, No. 4	B-41
Vol. 27, No. 4	B-66
Vol. 27, No. 4	B-118
Vol. 27, No. 4	C-40
Vol. 27, No. 4	C-47
Vol. 27, No. 4	C-60
Vol. 27, No. 4	D-18
Vol. 27, No. 4	D-50
Vol. 27, No. 4	D-57
Vol. 27, No. 4	D-64
Vol. 27, No. 5	E-13
Vol. 27, No. 5	B-46
Vol. 27, No. 5	C-6
Vol. 27, No. 5	C-34
Vol. 27, No. 5	C-52
Vol. 27, No. 5	C-65
Vol. 27, No. 5	C-75
Vol. 27, No. 5	C-48
Vol. 27, No. 5	D-58
Vol. 27, No. 5	D-88
Vol. 27, No. 6	E-19
Vol. 27, No. 6	B-79
Vol. 27, No. 6	B-103
Vol. 27, No. 6	C-40
Vol. 27, No. 6	C-58
Vol. 27, No. 6	D-33
Vol. 27, No. 7	E-2
Vol. 27, No. 7	C-47
Vol. 27, No. 7	D-8
Vol. 27, No. 9	A-58
Vol. 27, No. 9	E-2
Vol. 27, No. 9	B-32
Vol. 27, No. 9	B-66
Vol. 27, No. 9	B-105
Vol. 27, No. 9	C-11
Vol. 27, No. 10	E-18a
Vol. 27, No. 10	B-38
Vol. 27, No. 10	B-39
Vol. 27, No. 10	B-76
Vol. 27, No. 10	B-102
Vol. 27, No. 10	C-53
Vol. 27, No. 10	C-54
Vol. 27, No. 10	C-57
Vol. 27, No. 10	C-57
Vol. 27, No. 10	D-55
Vol. 27, No. 11	E-24
Vol. 27, No. 11	B-25
Vol. 27, No. 11	B-52a
Vol. 27, No. 11	B-106
Vol. 27, No. 11	B-119
Vol. 27, No. 11	B-121
Vol. 27, No. 11	B-122
Vol. 27, No. 11	C-32
Vol. 27, No. 11	C-50
Vol. 27, No. 11	D-21
Vol. 27, No. 11	D-23
Vol. 27, No. 11	D-25
Vol. 27, No. 11	D-27
Vol. 27, No. 11	D-29
Vol. 27, No. 11	D-39
Vol. 27, No. 11	D-46
Vol. 27, No. 11	D-47
Vol. 27, No. 11	D-56
Vol. 27, No. 11	D-65
Vol. 27, No. 11	D-66
Vol. 27, No. 11	D-71
Vol. 27, No. 11	D-74
Vol. 27, No. 11	D-78
Vol. 27, No. 11	D-105
Vol. 27, No. 11	D-108
Vol. 27, No. 11	D-111
Vol. 27, No. 12	A-47
Vol. 27, No. 12	E-2
Vol. 27, No. 12	E-10
Vol. 27, No. 12	B-70
Vol. 27, No. 12	B-110
Vol. 27, No. 12	E-122
Vol. 27, No. 12	C-16
Vol. 27, No. 12	D-37
Vol. 27, No. 12	D-62

Author—	Page
Vol. 27, No. 12	D-64
Vol. 27, No. 12	D-69
Vol. 27, No. 12	D-76
Vol. 27, No. 13	B-61
Vol. 27, No. 13	B-78
Vol. 27, No. 13	B-118
Vol. 27, No. 13	B-122
Vol. 27, No. 13	C-51
Vol. 27, No. 13	D-51
Vol. 27, No. 13	D-52
Vol. 27, No. 13	D-57
Vol. 27, No. 13	D-58
Vol. 27, No. 13	D-59
Applegate, F. B.	
Vol. 27, No. 7	C-19
Vol. 27, No. 11	C-9
Vol. 27, No. 13	C-31
Arnold, J. H.	
Vol. 27, No. 13	C-55
Arnold, M. L.	
Vol. 27, No. 13	D-13
Askew, Joe, Jr.	
Vol. 27, No. 11	B-90
Attaway, Don	
Vol. 27, No. 4	B-97

B

Bailly, Florent H.	
Vol. 27, No. 10	B-72
Barsky, George	
Vol. 27, No. 5	C-37
Vol. 27, No. 6	C-49
Vol. 27, No. 9	C-8
Bass, D. M.	
Vol. 27, No. 6	B-59
Bass, Harry W.	
Vol. 27, No. 1	A-50
Battles, Willis R.	
Vol. 27, No. 7	C-41
Vol. 27, No. 12	C-32
Bayless, John C.	
Vol. 27, No. 6	D-27
Beach, Floyd K.	
Vol. 27, No. 2	A-61
Beaudry, L. A.	
Vol. 27, No. 4	C-55
Bell, Alfred	
Vol. 27, No. 11	A-59
Bentz, Keith	
Vol. 27, No. 10	D-60
Benz, George R.	
Vol. 27, No. 1	C-27
Bercher, J. W. J.	
Vol. 27, No. 5	D-68
Berringer, J. C.	
Vol. 27, No. 10	D-31
Bessler, R. R.	
Vol. 27, No. 5	D-75
Biggerstaff, Neil B.	
Vol. 27, No. 6	B-124
Bissey, L. T.	
Vol. 27, No. 3	D-28
Blossom, E. D.	
Vol. 27, No. 9	C-12
Bobo, Roy A.	
Vol. 27, No. 12	B-46
Bock, J. A.	
Vol. 27, No 2	C-25
Bockman, T. V.	
Vol. 27, No. 6	D-36
Boegehold, Carl W.	
Vol. 27, No. 5	D-62
Bollman, G. H.	
Vol. 27, No. 13	D-26
Bonham, Claude F.	
Vol. 27, No. 13	B-93
Bono, Thomas J.	
Vol. 27, No. 3	B-44
Booth, W. M.	
Vol. 27, No. 4	B-109
Boyd, Frank A.	
Vol. 27, No. 9	B-84
Bradford, R. I.	
Vol. 27, No. 9	B-81
Bradley, Bryant W.	
Vol. 27, No. 10	C-58
Brady, S. J.	
Vol. 27, No. 5	D-38
Brewster, P. J.	
Vol. 27, No. 4	D-23
Brien, Eugene B.	
Vol. 27, No. 3	C-35
Vol. 27, No. 3	C-61
Vol. 27, No. 5	C-45
Broaddus, J. E.	
Vol. 27, No. 2	C-38
Bromell, R. J.	
Vol. 27, No. 3	B-95
Vol. 27, No. 4	B-55
Brook, W. E.	
Vol. 27, No. 9	C-32
Brooks, C. H.	
Vol. 27, No. 11	C-33
Brown, A. D.	
Vol. 27, No. 2	B-58
Bruins, P. F.	
Vol. 27, No. 3	C-54
Buck, J. Randolph	
Vol. 27, No. 5	B-103
Vol. 27, No. 9	B-29
Vol. 27, No. 10	B-69
Vol. 27, No. 11	B-86
Vol. 27, No. 12	B-72
Vol. 27, No. 13	B-87
Buckwalter, John F.	
Vol. 27, No. 2	B-96
Burchett, C. T. Jr.	
Vol. 27, No. 4	B-90
Vol. 27, No. 5	B-64
Vol. 27, No. 6	B-87
Vol. 27, No. 7	B-64
Vol. 27, No. 9	B-99
Burnell, Edward J.	
Vol. 27, No. 11	E-2
Buzzini, Arthur P.	
Vol. 27, No. 12	B-112

C

Cable, L. G.	
Vol. 27, No. 11	B-90
Campbell, David L.	
Vol. 27, No. 2	C-14
Cannon, R. S.	
Vol. 27, No. 6	D-36
Carlson, Dick	
Vol. 27, No. 1	E-9
Chamblerlain, C. A.	
Vol. 27, No. 13	D-26
Chen, L. H.	
Vol. 27, No. 11	C-40
Childress, H. M.	
Vol. 27, No. 13	D-35
Childs, J. R.	
Vol. 27, No. 12	D-30
Chilingar, George V.	
Vol. 27, No. 4	B-119
Chilton, H. T., Jr.	
Vol. 27, No. 9	D-28
Clark, Dal	
Vol. 27, No. 3	D-20
Clark, E. H. Jr.	
Vol. 27, No. 1	B-68
Clark, Roscoe C., Jr.	
Vol. 27, No. 10	B-85
Clark, William A.	
Vol. 27, No. 7	A-35
Clason, C. E.	
Vol. 27, No. 3	B-111
Clements, William P., Jr.	
Vol. 27, No. 11	B-101
Clinkenbeard, Paul	
Vol. 27, No. 9	B-76
Clinton, E. M.	
Vol. 27, No. 13	E-1
Clough, K. H.	
Vol. 27, No. 10	C-26
Cochrane, H. G.	
Vol. 27, No. 1	A-45
Vol. 27, No. 9	A-51
Conlan, Richard B.	
Vol. 27, No. 1	C-13
Cornforth, R. M.	
Vol. 27, No. 11	C-29
Courtney, Fred G.	
Vol. 27, No. 13	B-46
Crawford, Paul B.	
Vol. 27, No. 6	B-59
Vol. 27, No. 9	B-81
Crews, Sim	
Vol. 27, No. 1	A-41
Vol. 27, No. 1	B-115
Vol. 27, No. 2	E-11
Crisman, O. W.	
Vol. 27, No. 7	B-81
Crockett, Lucien O.	
Vol. 27, No. 10	C-15
Cunningham, W. C.	
Vol. 27, No. 9	C-32

D

Dale, Clarence R.	
Vol. 27, No. 7	B-35
Darner, R. R.	
Vol. 27, No. 4	B-90
Vol. 27, No. 5	B-64
Vol. 27, No. 6	B-87
Vol. 27, No. 7	B-64
Vol. 27, No. 9	B-99
Dart, J. C.	
Vol. 27, No. 6	C-43
Day, S. G.	
Vol. 27, No. 3	B-66
de Lilliac, R. Grainer	
Vol. 27, No. 7	B-40
DeVoe, W. F.	
Vol. 27, No. 1	C-27
Dickson, Lester R.	
Vol. 27, No. 9	C-19
Dixon, W. T.	
Vol. 27, No. 13	C-55
Dobyns, R. P.	
Vol. 27, No. 4	B-90
Vol. 27, No. 5	B-64
Vol. 27, No. 6	B-87
Vol. 27, No. 7	B-64
Vol. 27, No. 9	B-99
Doll, H. G.	
Vol. 27, No. 1	B-53
Dowdy, Vernon K.	
Vol. 27, No. 13	A-41
Doyle, Collin M.	
Vol. 27, No. 5	C-49
Dunlap, A. L.	
Vol. 27, No. 12	D-66
Dupouy-Camet, J.	
Vol. 27, No. 7	B-108

E

Eastman, H. John	
Vol. 27, No. 1	B-111
Vol. 27, No. 3	B-77
Eckhardt, Paul K.	
Vol. 27, No. 2	D-6
Eddy, W. C.	
Vol. 27, No. 5	D-42
Ellis, Brooks F.	
Vol. 27, No. 4	B-68
Elmore, E. P., Jr.	
Vol. 27, No. 5	D-20
Elmore, Lee	
Vol. 27, No. 11	D-81
Endean, Howard J.	
Vol. 27, No. 12	D-21
England, A. C.	
Vol. 27, No. 7	B-81
Erbe, Charles B.	
Vol. 27, No. 9	B-46

F

Farnsworth, H. S.	
Vol. 27, No. 1	D-32
Feagan, R. A.	
Vol. 27, No. 11	C-48
Fiske, C. E.	
Vol. 27, No. 6	C-31
Fiske, Leland E.	
Vol. 27, No. 9	A-54
Forbes, M. C.	
Vol. 27, No. 10	C-34
Ford, Frank, Jr.	
Vol. 27, No. 13	B-83
Ford, V. E.	
Vol. 27, No. 2	D-20
Foree, Robert L.	
Vol. 27, No. 6	B-113
Foster, Arch L.	
Vol. 27, No. 1	A-41
Vol. 27, No. 1	C-20
Vol. 27, No. 2	C-6
Vol. 27, No. 3	C-6
Vol. 27, No. 8	C-19
Vol. 27, No. 10	C-6
Foulke, Gene	
Vol. 27, No. 13	D-22
Fredhold, Allan, Jr.	
Vol. 27, No. 13	B-125
Fruechtenicht, H. L.	
Vol. 27, No. 9	D-46
Frye, C. C.	
Vol. 27, No. 2	B-48

G

Gatlin, Carl	
Vol. 27, No. 2	B-91
Gavin, Harry W.	
Vol. 27, No. 10	D-47
George E. J.	
Vol. 27, No. 7	C-32
Gibson, J. W.	
Vol. 27, No. 10	C-44
Gionta, Al	
Vol. 27, No. 6	B-120
Graham, C. R.	
Vol. 27, No. 6	B-107
Vol. 27, No. 11	B-68
Vol. 27, No. 12	E-19
Graham, Gene	
Vol. 27, No. 4	B-35
Vol. 27, No. 9	B-107
Greaves, Merle S.	
Vol. 27, No. 7	D-35
Green, Cecil H.	
Vol. 27, No. 10	B-104
Greenmeyer, Paul A.	
Vol. 27, No. 3	B-102
Vol. 27, No. 5	C-26
Griffin, John C.	
Vol. 27, No. 10	E-1
Grove, M. B.	
Vol. 27, No. 13	D-35

H

Hager, Dorsey	
Vol. 27, No. 10	B-50
Hale, Dean	
Vol. 27, No. 1	A-41
Vol. 27, No. 1	D-6
Vol. 27, No. 1	D-10
Vol. 27, No. 4	D-52
Vol. 27, No. 5	D-77
Vol. 27, No. 5	D-80
Vol. 27, No. 8	D-22
Vol. 27, No. 9	D-38
Vol. 27, No. 11	D-33
Vol. 27, No. 11	D-98
Vol. 27, No. 12	D-52
Halvorson, Robert L.	
Vol. 27, No. 2	D-23
Hammon, W. H.	
Vol. 27, No. 4	B-90
Hantho, C. H.	
Vol. 27, No. 6	C-2
Harrington, W. R.	
Vol. 27, No. 5	B-10
Harris, M. B.	
Vol. 27, No. 5	B-5
Hayes, Elmer W.	
Vol. 27, No. 13	C-6
Hayes, William C.	
Vol. 27, No. 1	B-3
Heard, Nancy	
Vol. 27, No. 7	B-9
Hertwig, W. R.	
Vol. 27, No. 2	C-2
Hilder, J. R.	
Vol. 27, No. 11	B-5
Hoch, R. S.	
Vol. 27, No. 12	B-46
Hochhausen, E.	
Vol. 27, No. 2	B-7
Honnold, D. E.	
Vol. 27, No. 9	C-3
Howard, Robert M.	
Vol. 27, No. 12	D-21
Howe, O. G.	
Vol. 27, No. 5	D-55
Howe, Richard J.	
Vol. 27, No. 11	B-73
Vol. 27, No. 12	B-77
Hoyt, Richard	
Vol. 27, No. 12	D-38
Huddleston, J. G.	
Vol. 27, No. 6	C-7
Hughen, Paul L.	
Vol. 27, No. 12	D-55
Hughes, T. G.	
Vol. 27, No. 4	B-80
Humes, Harold L.	
Vol. 27, No. 9	C-40
Hunter, Coleman D.	
Vol. 27, No. 5	B-47
Huntington, R. L.	
Vol. 27, No. 2	C-38
Vol. 27, No. 9	C-32
Vol. 27, No. 9	D-40
Huss, Carl	
Vol. 27, No. 4	D-48
Vol. 27, No. 6	D-46

I

Ince, Henry	
Vol. 27, No. 9	B-81
Indra, M. K.	
Vol. 27, No. 4	B-50
Inman, Richard W.	
Vol. 27, No. 1	D-24
Insley, Allan D.	
Vol. 27, No. 2	E-6
Irelan, S. B.	
Vol. 27, No. 12	E-4

J

Jackson, George O.	
Vol. 27, No. 11	D-48
Jay, Raymond R.	
Vol. 27, No. 9	C-19
Jones, C. Morgan	
Vol. 27, No. 2	C-47
Vol. 27, No. 4	C-19
Jones, Marvin	
Vol. 27, No. 1	B-97
Jones, Walter B.	
Vol. 27, No. 12	B-37

K

Kalichevsky, V. A.	
Vol. 27, No. 5	C-11
Vol. 27, No. 6	C-36
Vol. 27, No. 9	C-21
Vol. 27, No. 11	C-18
Vol. 27, No. 12	C-11
Vol. 27, No. 13	C-19
Kastrop, J. E.	
Vol. 27, No. 7	B-29
Vol. 27, No. 10	B-35
Vol. 27, No. 12	B-33
Vol. 27, No. 13	B-40
Keller, J. L.	
Vol. 27, No. 12	C-19
Kellogg, Dimitri A.	
Vol. 27, No. 11	C-6
Kellogg, Karl L.	
Vol. 27, No. 9	B-109
Kelly, Fred W., Jr.	
Vol. 27, No. 6	B-40
Kent, W. L.	
Vol. 27, No. 12	C-19
Koger, W. C.	
Vol. 27, No. 3	B-92
Kraus, Fred	
Vol. 27, No. 9	C-44

L

Ladd, B. J.	
Vol. 27, No. 13	B-112
Lamar, Lucius M.	
Vol. 27, No. 3	E-12
Landeau, Ralph	
Vol. 27, No. 5	C-71

Author— Page

Larson, C. M.
Vol. 27, No. 3 C-44
Lawler, H. L.
Vol. 27, No. 11 C-48
Lee, Edward R., Jr.
Vol. 27, No. 11 C-29
Lee, Lawrence W.
Vol. 27, No. 2 A-65
Lehmann, J. A.
Vol. 27, No. 3 D-32
Lester, C. B.
Vol. 27, No. 9 D-28
LeVelle, James A.
Vol. 27, No. 8 B-41
Vol. 27, No. 11 B-108
Vol. 27, No. 13 B-35
Lewis, Paul J.
Vol. 27, No. 10 B-79
Liggett, F. S.
Vol. 27, No. 12 C-19
Lindsay, R. E.
Vol. 27, No. 6 C-7
Linn, Earl H.
Vol. 27, No. 5 B-32
Llewellyn, T. S.
Vol. 27, No. 4 D-29
Lounsberry, E. P.
Vol. 27, No. 4 D-23
Love, Frank H.
Vol. 27, No. 11 D-40
Lugol, Gilbert
Vol. 27, No. 7 B-40
Lumpkin, L. B.
Vol. 27, No. 3 D-16
Lynn, C. V.
Vol. 27, No. 10 D-13
Lytle, William S.
Vol. 27, No. 6 B-33

Mc

McBride, D. S.
Vol. 27, No. 4 B-90
Vol. 27, No. 5 B-64
Vol. 27, No. 6 B-87
Vol. 27, No. 7 B-64
Vol. 27, No. 9 B-99
McCanne, R. W.
Vol. 27, No. 10 B-44
McCuen, Charles L.
Vol. 27, No. 11 E-11
McEachern, D. J.
Vol. 27, No. 2 E-2
McGregor, Douglas
Vol. 27, No. 4 E-2
McLaughlin, Philip L.
Vol. 27, No. 11 B-60
McLaurin, J. H.
Vol. 27, No. 13 B-83

M

MacGowan, Gault
Vol. 27, No. 4 D-62
Maier, G. J.
Vol. 27, No. 2 B-48
Mapstone, George E.
Vol. 27, No. 4 C-26
Vol. 27, No. 12 C-35
Mares, Joseph R.
Vol. 27, No. 3 C-12
Menard, H.
Vol. 27, No. 9 C-12
Menneer, Jack
Vol. 27, No. 5 B-81
Mernitz, Paul
Vol. 27, No. 6 C-31
Messina, Angelina R.
Vol. 27, No. 4 B-68
Mills, G. A.
Vol. 27, No. 6 C-43
Mills, Kenneth N.
Vol. 27, No. 4 B-37
Vol. 27, No. 12 B-57
Milne, James F.
Vol. 27, No. 2 B-81
Milner, Charles P.
Vol. 27, No. 5 B-114
Mitchell, J. H.
Vol. 27, No. 5 D-82
Vol. 27, No. 7 D-11
Vol. 27, No. 9 D-34
Moerke, Ned H.
Vol. 27, No. 13 D-54
Montgomery, Palmer H.
Vol. 27, No. 3 E-2
Moody, Graham B.
Vol. 27, No. 10 B-31
Moore, C. C.
Vol. 27, No. 12 C-19
Moore, E. E.
Vol. 27, No. 2 B-73
Morse, A. J.
Vol. 27, No. 2 C-38
Munger, Charles G.
Vol. 27, No. 7 C-7
Munro, J. D.
Vol. 27, No. 1 C-35
Murphy, Dennis
Vol. 27, No. 13 A-45

N

Nathan, C. C.
Vol. 27, No. 12 B-66
Neaves, Carol
Vol. 27, No. 10 D-26
Newman, Charles
Vol. 27, No. 13 D-54
Nickoloff, George D.
Vol. 27, No. 2 B-81
Nigh, M. T.
Vol. 27, No. 4 D-29
Nisle, R. G.
Vol. 27, No. 1 D-14
Vol. 27, No. 2 D-36
Vol. 27, No. 3 D-37
Nottes, E. G.
Vol. 27, No. 4 C-26
Nuber, Kenneth J.
Vol. 27, No. 9 D-11

O

Oblad, A. G.
Vol. 27, No. 6 C-43
O'Connor, F. P. "Pat"
Vol. 27, No. 12 D-27
Odom, Leo M.
Vol. 27, No. 11 D-94
Oehler, H. A.
Vol. 27, No. 1 C-10
Orlofsky, Sy
Vol. 27, No. 5 D-47
Vol. 27, No. 6 D-15
Ormsby, George S.
Vol. 27, No. 12 B-46
O'Rourke, Edward V.
Vol. 27, No. 3 B-71

P

Pabst, A. C.
Vol. 27, No. 5 E-2
Packard, H. C.
Vol. 27, No. 9 D-17
Parker, Jack R.
Vol. 27, No. 13 C-39
Parker, Marshall E.
Vol. 27, No. 1 D-28
Vol. 27, No. 3 D-22
Vol. 27, No. 9 D-24
Parrent, K. G.
Vol. 27, No. 5 B-41
Peavy, C. C.
Vol. 27, No. 6 C-43
Peret, J. W.
Vol. 27, No. 11 B-96
Peters, E. F.
Vol. 27, No. 4 B-112
Petrovsek, John
Vol. 27, No. 1 C-7
Phillips, R. J.
Vol. 27, No. 13 C-9
Pierce, Bennie G.
Vol. 27, No. 12 D-81
Podbielniak, Walter J.
Vol. 27, No. 5 C-17
Poettmann, Fred H.
Vol. 27, No. 1 D-14
Vol. 27, No. 2 D-36
Vol. 27, No. 3 D-37
Porter, J. L.
Vol. 27, No. 4 C-7
Power, Harry H.
Vol. 27, No. 5 B-114
Prescott, B. Osborne
Vol. 27, No. 5 B-37
Preston, S. T.
Vol. 27, No. 5 C-17
Prutzman, F. G.
Vol. 27, No. 7 B-89

R

Rahmes, M. H.
Vol. 27, No. 11 C-48
Rauch, Edward
Vol. 27, No. 5 C-49
Recasens, Eduardo
Vol. 27, No. 6 A-51
Reichelderfer, Francis W.
Vol. 27, No. 4 D-41
Reiss, Harold R.
Vol. 27, No. 10 D-23
Renfro, Kenneth M.
Vol. 27, No. 10 B-94
Rhodes, A. F.
Vol. 27, No. 12 B-105
Robinson, E. L.
Vol. 27, No. 12 E-12
Robson, F. W.
Vol. 27, No. 5 B-90
Rodgers, Cliff J.
Vol. 27, No. 13 B-66
Roehl, O. C.
Vol. 27, No. 13 E-17
Rogers, Douglas, Jr.
Vol. 27, No. 3 B-35
Ross, S. D.
Vol. 27, No. 3 C-37
Rowland, L. O.
Vol. 27, No. 2 D-30
Vol. 27, No. 10 D-11
Vol. 27, No. 11 D-112
Rowley, A. M.
Vol. 27, No. 1 B-48
Russell, James H.
Vol. 27, No. 6 B-72
Russum, L. W.
Vol. 27, No. 2 C-25

S

Sallee, Warren L.
Vol. 27, No. 6 B-120
Salls, D. M.
Vol. 27, No. 6 D-54
Salmon, Royes
Vol. 27, No. 2 C-42
Sampson, E. N.
Vol. 27, No. 4 D-14
Schlegel, R. A.
Vol. 27, No. 3 C-37
Schwartz, H. E., Jr.
Vol. 27, No. 7 B-105
Schwartz, Perry
Vol. 27, No. 5 D-31
Sekules, Walter
Vol. 27, No. 4 C-38
Sellers, J. R.
Vol. 27, No. 5 D-38
Sherwood, Peter W.
Vol. 27, No. 5 C-53
Vol. 27, No. 6 C-13
Vol. 27, No. 7 C-25
Vol. 27, No. 12 C-41
Vol. 27, No. 13 C-14
Sinex, B. J.
Vol. 27, No. 5 B-77
Skidmore, H. B.
Vol. 27, No. 7 C-36
Smith, Arthur A.
Vol. 27, No. 4 E-20
Smith, Dwight K.
Vol. 27, No. 4 B-101
Smith, Norman C.
Vol. 27, No. 10 B-94
Snyder, W. G.
Vol. 27, No. 6 E-2
Stach, Leo W.
Vol. 27, No. 6 E-8
Steel, R. A.
Vol. 27, No. 2 C-25
Steiny, Homer
Vol. 27, No. 11 B-116
Stone, Millard E.
Vol. 27, No. 10 E-6
Stumm, J. B.
Vol. 27, No. 3 B-107
Vol. 27, No. 5 B-75
Vol. 27, No. 7 C-12
Vol. 27, No. 7 D-5
Vol. 27, No. 9 B-42
Vol. 27, No. 11 B-126
Vol. 27, No. 11 D-52
Vol. 27, No. 13 C-6
Sturdivant, W. C., Jr.
Vol. 27, No. 12 B-95
Vol. 27, No. 13 B-105
Sudrabin, L. P.
Vol. 27, No. 3 D-32
Swaminathan, V. S.
Vol. 27, No. 2 C-19
Vol. 27, No. 3 A-49
Vol. 27, No. 4 E-8
Vol. 27, No. 4 B-77
Vol. 27, No. 4 C-11
Vol. 27, No. 4 C-13
Vol. 27, No. 4 C-51
Vol. 27, No. 12 B-56

T

Tanner, N. E.
Vol. 27, No. 2 D-47
Terrell, K. E.
Vol. 27, No. 13 B-112
Thompson, C.
Vol. 27, No. 5 D-86
Thorvaldson, W. M.
Vol. 27, No. 2 B-39
Towse, Donald
Vol. 27, No. 10 B-40
Travirca, C. A.
Vol. 27, No. 13 B-54
Tucker, Paul W.
Vol. 27, No. 1 C-27

U

Umbach, Paul H.
Vol. 27, No. 10 B-56
Upson, C. E.
Vol. 27, No. 7 D-26

V

Valois, M.
Vol. 27, No. 6 C-22
Van Winkle, M.
Vol. 27, No. 1 C-10
Vivian, C. H.
Vol. 27, No. 1 D-40
Voorhees, Vanderveer
Vol. 27, No. 3 C-26

W

Walker, C. R.
Vol. 27, No. 7 D-20
Walker, Frank H.
Vol. 27, No. 9 B-34
Walker, Jack K.
Vol. 27, No. 12 C-7
Wallin, W. E.
Vol. 27, No. 5 B-57
Warke, J. A.
Vol. 27, No. 2 B-39
Warner, W. E.
Vol. 27, No. 12 D-42
Waterman, H. C.
Vol. 27, No. 10 D-34
Watson, J. H.
Vol. 27, No. 2 D-18
Watson, James C.
Vol. 27, No. 10 B-60
Webb, Glenn W.
Vol. 27, No. 9 B-54
Weems, Ray O., Jr.
Vol. 27, No. 11 A-64
Weichbrodt, Harold
Vol. 27, No. 7 B-76
Weil, A. H.
Vol. 27, No. 7 D-14
West, W. E., Jr.
Vol. 27, No. 10 B-64
White, Philip D.
Vol. 27, No. 9 D-40
Whitfield, Marion A.
Vol. 27, No. 10 B-85
Whitman, Walter G.
Vol. 27, No. 5 E-9
Widgery, Rolande C.
Vol. 27, No. 10 C-15
Wiggins, Jack L.
Vol. 27, No. 6 B-96
Wilhoit, J. C.
Vol. 27, No. 12 B-105
Willard, Bradford
Vol. 27, No. 3 B-59
Williams, C. S., Jr.
Vol. 27, No. 13 D-48
Williams, J. B.
Vol. 27, No. 4 D-23
Williams, R. J.
Vol. 27, No. 9 C-6
Wilson, T. C.
Vol. 27, No. 7 C-16
Winn, Francis W.
Vol. 27, No. 10 C-10
Woodhams, R. T.
Vol. 27, No. 3 C-54
Woodling, Victor A.
Vol. 27, No. 11 D-88
Woodward, H. P.
Vol. 27, No. 3 B-50

Y

Young, David M.
Vol. 27, No. 6 B-29